



Annual International Symposium on Industrial Electronics (ISIE) 2023

Special Sessions on

“Advanced Motion Control for Mechatronic Systems”

Principle Organizer:

First Name: Kenta

Last Name: Seki

Email: k-seki@nitech.ac.jp

Affiliations: Nagoya Institute of Technology, Japan

Co-Organizer 1:

First Name: Tomoyuki

Last Name: Shimono

Email: shimono-tomoyuki-hc@ynu.ac.jp

Affiliations: Yokohama National University, Japan

Co-Organizer 2:

First Name: Riccardo

Last Name: Antonello

Email: riccardo.antonello@unipd.it

Affiliations: University of Padova, Italy

Call for Papers

Theme:

Recently, mechatronic systems have been expected to be active in many kinds of fields. Varieties of mechatronic applications require advanced motion control techniques, realized by integration among smart design of control system, intelligent sensing, and innovative actuators. Such a cutting-edge methodology for fast and precise control of motion (position, velocity, and force) would bring critical solutions for sustainable development and high-quality life. This special session aims to bring researchers and engineers together to discuss recent advances in the field of motion control.

Topics of interest include, but are not limited to:

1	New actuators and sensors for motion control systems
2	Intelligent sensing techniques for mechatronic systems
3	High precision control techniques in industrial mechatronic systems
4	Modelling and compensation techniques for nonlinearities in mechatronic systems
5	Explicit and implicit force control
6	Compliant and soft robot control
7	Motion control for human-robot collaboration
8	Applications of motion control to medical and assistive devices
9	Applications of motion control to automobiles

Submissions Procedure:

All the instructions for paper submission are included in the conference website:
<https://2023.ieee-isie.org/>

Deadlines:

Full paper submission:	January 31, 2023
Paper acceptance notification:	April 15, 2023
Camera-ready paper submission:	April. 30, 2023